

# WEST Search History

DATE.: Monday, September 22, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>			
L9	L8 and 203	36	L9
L8	L7 and (threonine or thr or T)	97	L8
L7	aequorea green fluorescent protein	107	L7
<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>			
L6	aequorea green fluorescent protein	55	L6
L5	('6124128')[PN]	1	L5
L4	('6054321')[PN]	1	L4
L3	('6077707')[PN]	1	L3
L2	('6403374')[PN]	1	L2
L1	('6593135')[PN]	1	L1

END OF SEARCH HISTORY

**WEST**

Generate Collection

Print

**Search Results - Record(s) 1 through 20 of 36 returned.**☐ 1. Document ID: US 20030170767 A1

L9: Entry 1 of 36

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170767  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030170767 A1

TITLE: Fluorescent protein sensors of post-translational modifications

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cubitt, Andrew B.	San Diego	CA	US	

US-CL-CURRENT: 435/15; 435/23, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 20030165951 A1

L9: Entry 2 of 36

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165951  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030165951 A1

TITLE: Methods of using semiconductor nanocrystals in bead-based nucleic acid assays

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bruchez, Marcel P. JR.	Fremont	CA	US	
Lai, Jennifer H.	Mountain View	CA	US	
Phillips, Vince E.	Sunnyvale	CA	US	
Watson, Andrew R.	Belmont	CA	US	
Wong, Edith Y.	Danville	CA	US	

US-CL-CURRENT: 435/6; 435/287.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 20030150007 A1

L9: Entry 3 of 36

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030150007  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030150007 A1

TITLE: Method of generating transgenic organisms using transposons

PUBLICATION-DATE: August 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Savakis, Charalambos	Heraklion		GR	
Grosveld, Frank	Rotterdam		NL	

US-CL-CURRENT: 800/21; 435/473

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
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☐ 4. Document ID: US 20030148930 A1

L9: Entry 4 of 36

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148930

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148930 A1

TITLE: Human zona pellucida proteins and methods of their use in diagnosing male infertility

PUBLICATION-DATE: August 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chi, Ting-Fung	Yorktown	VA	US	
Lin, Zhiyong	Norfolk	VA	US	
Dong, Ke-Wen	Chesapeake	VA	US	
Hsu, Ming-I	Virginia Beach	VA	US	
Cheng, Jr-Gang	Virginia Beach	VA	US	
Zheng, Heming	Norfolk	VA	US	

US-CL-CURRENT: 514/8; 435/7.5, 435/7.92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWMC	Draw Desc	Image
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☐ 5. Document ID: US 20030059835 A1

L9: Entry 5 of 36

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059835 A1

TITLE: Monomeric and dimeric fluorescent protein variants and methods for making same

PUBLICATION-DATE: March 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tsien, Roger Y.	LaJolla	CA	US	
Campbell, Robert E.	San Diego	CA	US	

US-CL-CURRENT: 435/7.1; 435/183, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWMC	Draw Desc	Image
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☐ 6. Document ID: US 20030049620 A1

L9: Entry 6 of 36

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049620  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030049620 A1

TITLE: Methods and compositions for polynucleotide analysis using generic capture sequences

PUBLICATION-DATE: March 13, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lai, Jennifer H.	Mountain View	CA	US	
Phillips, Vincent	Sunnyvale	CA	US	
Watson, Andrew Robert	Belmont	CA	US	

US-CL-CURRENT: 435/6; 435/287.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 20030036178 A1

L9: Entry 7 of 36

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036178  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030036178 A1

TITLE: Long wavelength engineered fluorescent proteins

PUBLICATION-DATE: February 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tsien, Roger Y.	La Jolla	CA	US	
Remington, James S.	Eugene	OR	US	
Cubitt, Andrew B.	San Diego	CA	US	
Heim, Roger	Del Mar	CA	US	
Ormo, Mats F.	Huddinge		SE	

US-CL-CURRENT: 435/183; 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 20030013149 A1

L9: Entry 8 of 36

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013149  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030013149 A1

TITLE: LONG WAVELENGTH ENGINEERED FLUORESCENT PROTEINS

PUBLICATION-DATE: January 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wachter, Rebekka M.	Creswell	OR	US	
Remington, S. James	Eugene	OR	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 9. Document ID: US 20020197606 A1

L9: Entry 9 of 36

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197606  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020197606 A1

TITLE: Compositions and methods for monitoring the modification of modification dependent binding partner polypeptides

PUBLICATION-DATE: December 26, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Craig, Roger	Smallwood		GB	

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 10. Document ID: US 20020157120 A1

L9: Entry 10 of 36

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020157120  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020157120 A1

TITLE: Circularly permuted fluorescent protein indicators

PUBLICATION-DATE: October 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tsien, Roger Y.	La Jolla	CA	US	
Baird, Geoffrey	San Diego	CA	US	

US-CL-CURRENT: 800/8; 435/252.3, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 11. Document ID: US 20020115082 A1

L9: Entry 11 of 36

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115082  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020115082 A1

TITLE: Methods and compositions for polynucleotide analysis using generic molecular beacons

PUBLICATION-DATE: August 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Phillips, Vince	Sunnyvale	CA	US	
Watson, Andrew R.	Belmont	CA	US	
Wong, Edith	Danville	CA	US	

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 12. Document ID: US 20020039732 A1

L9: Entry 12 of 36

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020039732

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020039732 A1

TITLE: Loop probe hybridization assay for polynucleotide analysis

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bruchez, Marcel P.	Fremont	CA	US	
Lai, Jennifer	Mountain View	CA	US	
Phillips, Vince E.	Sunnyvale	CA	US	
Watson, Andrew R.	Belmont	CA	US	
Wong, Edith	Danville	CA	US	

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 13. Document ID: US 20020034747 A1

L9: Entry 13 of 36

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020034747

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020034747 A1

TITLE: Methods of using semiconductor nanocrystals in bead-based nucleic acid assays

PUBLICATION-DATE: March 21, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bruchez, Marcel P. JR.	Fremont	CA	US	
Lai, Jennifer H.	Mountain View	CA	US	
Phillips, Vince E.	Sunnyvale	CA	US	
Watson, Andrew R.	Belmont	CA	US	
Wong, Edith Y.	Danville	CA	US	

US-CL-CURRENT: 435/6; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6608189 B1

L9: Entry 14 of 36

File: USPT

Aug 19, 2003

US-PAT-NO: 6608189

DOCUMENT-IDENTIFIER: US 6608189 B1

TITLE: Fluorescent protein sensors for measuring the pH of a biological sample

DATE-ISSUED: August 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Llopis; Juan	La Jolla	CA		
Wachter; Rebekka M.	Creswell	OR		
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 536/23.5; 435/252.3, 435/254.4, 435/325, 435/410, 435/810, 530/350

## ABSTRACT:

Disclosed are fluorescent protein sensors for measuring the pH of a sample, nucleic acids encoding them, and methods of use. The preferred fluorescent protein sensors are variants of the green fluorescent protein (GFP) from *Aequorea victoria*. Also disclosed are compositions and methods for measuring the pH of a specific region of a cell, such as the mitochondrial matrix or the Golgi lumen.

8 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 6593135 B2

L9: Entry 15 of 36

File: USPT

Jul 15, 2003

US-PAT-NO: 6593135

DOCUMENT-IDENTIFIER: US 6593135 B2

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wachter; Rebekka M.	Creswell	OR		
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 435/325; 435/252.3, 435/252.33, 435/254.11, 435/320.1, 435/410, 536/23.1, 536/23.4, 536/23.6

## ABSTRACT:

Engineered fluorescent proteins, nucleic acids encoding them and methods of use.

30 Claims, 66 Drawing figures

Exemplary Claim Number: 1  
Number of Drawing Sheets: 62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 6500622 B2

L9: Entry 16 of 36

File: USPT

Dec 31, 2002

US-PAT-NO: 6500622  
DOCUMENT-IDENTIFIER: US 6500622 B2

TITLE: Methods of using semiconductor nanocrystals in bead-based nucleic acid assays

DATE-ISSUED: December 31, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bruchez, Jr.; Marcel P.	Fremont	CA		
Lai; Jennifer H.	Mountain View	CA		
Phillips; Vince E.	Sunnyvale	CA		
Watson; Andrew R.	Belmont	CA		
Wong; Edith Y.	Danville	CA		

US-CL-CURRENT: 435/6; 435/7.1, 435/91.1, 435/91.2, 536/22.1, 536/23.1, 536/24.3, 536/24.31,  
536/24.32, 536/24.33

## ABSTRACT:

Methods, compositions and articles of manufacture for assaying a sample for a target polynucleotide and/or an amplification product therefrom are provided. The methods comprise contacting a sample suspected of containing the target polynucleotide with a polynucleotide that can bind specifically thereto; this polynucleotide is conjugated to a substrate, preferably an encoded bead conjugate. An amplification reaction can first be used to produce the amplification product from the target polynucleotide so that it can be used to indirectly assay for the target polynucleotide. An amplification product detection complex and method of forming the same are also provided. The methods are particularly useful in multiplex settings where a plurality of targets are present. Amplification product assay complexes and amplification product assay arrays are also provided, along with methods of forming the same. Kits comprising reagents for performing such methods are also provided.

37 Claims, 18 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 6495664 B1

L9: Entry 17 of 36

File: USPT

Dec 17, 2002

US-PAT-NO: 6495664  
DOCUMENT-IDENTIFIER: US 6495664 B1

TITLE: Fluorescent protein sensors of post-translational modifications

DATE-ISSUED: December 17, 2002

## INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Cubitt; Andrew B.	San Diego	CA		

US-CL-CURRENT: 530/350; 435/4, 530/300

## ABSTRACT:

The present invention includes a fluorescent compound that can detect an activity, such as an enzymatic activity, and exhibits quenching. The fluorescent compound can include a fluorescent protein, such as an Aequorea-related green fluorescent protein. The fluorescent compound can include a substrate site for an enzymatic activity such as a kinase activity, a phosphatase activity, a protease activity, and a glycosylase activity. The fluorescent compound of the present invention can be used to detect such enzymatic activities in samples, such as biological samples, including cells. The present invention also includes nucleic acids that encode the fluorescent compounds of the present inventions, and cells that include such nucleic acids or fluorescent compounds.

23 Claims, 11 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC	Draw Desc	Image
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☐ 18. Document ID: US 6436682 B1

L9: Entry 18 of 36

File: USPT

Aug 20, 2002

US-PAT-NO: 6436682  
DOCUMENT-IDENTIFIER: US 6436682 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

DATE-ISSUED: August 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA		
Szent-Gyorgyi; Christopher	Pittsburgh	PA		

US-CL-CURRENT: 435/189; 124/74, 124/76, 222/1, 42/54, 435/183, 446/473

## ABSTRACT:

Isolated and purified nucleic acid molecules that encode a luciferase from Renilla mulleri, Gaussia and Pleuromamma, and the proteins encoded thereby are provided. Isolated and purified nucleic acids encoding green fluorescent proteins from the genus Renilla and Ptilosarcus, and the green fluorescent proteins encoded thereby are also provided. Compositions and combinations comprising the green fluorescent proteins and/or the luciferase are further provided.

9 Claims, 14 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC	Draw Desc	Image
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☐ 19. Document ID: US 6413768 B1

L9: Entry 19 of 36

File: USPT

Jul 2, 2002

US-PAT-NO: 6413768

DOCUMENT-IDENTIFIER: US 6413768 B1

TITLE: Expression plasmids

DATE-ISSUED: July 2, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/320.1; 530/300, 530/350, 530/403, 536/24.1

## ABSTRACT:

The present invention relates generally to a Plasmid Maintenance System for the stabilization of expression plasmids encoding foreign antigens, and methods for making and using the Plasmid Maintenance System. The invention optimizes the maintenance of expression plasmids at two independent levels by: (1) removing sole dependence on balanced lethal maintenance systems; and (2) incorporating a plasmid partition system to prevent random segregation of expression vector plasmids, thereby enhancing their inheritance and stability. The Plasmid Maintenance System may be employed within a plasmid which has been recombinantly engineered to express a variety of expression products.

13 Claims, 26 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 6403374 B1

L9: Entry 20 of 36

File: USPT

Jun 11, 2002

US-PAT-NO: 6403374

DOCUMENT-IDENTIFIER: US 6403374 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: June 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Remington; S. James	Eugene	OR		
Cubitt; Andrew B.	San Diego	CA		
Heim; Roger	Del Mar	CA		
Ormo ; Mats F.	Huddinge			SE

US-CL-CURRENT: 435/325; 435/252.3, 435/252.33, 435/254.11, 435/320.1, 435/410, 536/23.1, 536/23.4, 536/23.6

## ABSTRACT:

Engineered fluorescent proteins, nucleic acids encoding them and methods of use are provided.

23 Claims, 55 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 21 through 36 of 36 returned.**☐ **21. Document ID: US 6287817 B1**

L9: Entry 21 of 36

File: USPT

Sep 11, 2001

US-PAT-NO: 6287817

DOCUMENT-IDENTIFIER: US 6287817 B1

TITLE: Fusion proteins for protein delivery

DATE-ISSUED: September 11, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Pamela B.	Cleveland Heights	OH		
Ferkol; Thomas	Concord	OH		
Eckman; Elizabeth	Ponte Vedra Beach	FL		
Schreiber; John	Gates Mills	OH		
Luk; John M.	South Horizons			HK

US-CL-CURRENT: 435/69.7; 435/6, 514/12, 530/866, 530/867, 536/23.1

## ABSTRACT:

A protein conjugate consisting of antibody directed at the pIgR and A.sub.1 AT can be transported specifically from the basolateral surface of epithelial cells to the apical surface. This approach provides us with the ability to deliver a therapeutic protein directly to the apical surface of the epithelium, by targeting the pIgR with an appropriate ligand. Thus, the highest concentration of the antiprotease will be at the apical surface, where it can do the greatest good in accelerating the inflammatory response.

15 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ **22. Document ID: US 6265548 B1**

L9: Entry 22 of 36

File: USPT

Jul 24, 2001

US-PAT-NO: 6265548

DOCUMENT-IDENTIFIER: US 6265548 B1

TITLE: Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

DATE-ISSUED: July 24, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pavlakakis; George N.	Rockville	MD		
Gaitanaris; George A.	Frederick	MD		
Stauber; Roland H.	Erlangen			DE
Vournakis; John N.	Charleston	SC		

US-CL-CURRENT: 530/350

## ABSTRACT:

The present invention is directed to mutants of the jellyfish Aequorea victoria green fluorescent protein (GFP) having at least 5 and preferably greater than 20 times the specific green fluorescence of the wild type protein. In other embodiments, the invention comprises mutant blue fluorescent proteins (BFPs) that emit an enhanced blue fluorescence. The invention also encompasses the expression of nucleic acids that encode a mutant GFP or BFP in a wide variety of engineered host cells, and the isolation of engineered proteins having increased fluorescent activity. The novel mutants of the present invention allow for a significantly more sensitive detection of fluorescence in engineered host cells than is possible with GFP or with its known mutants. Thus, the mutant fluorescent proteins provided herein can be used as sensitive reporter molecules to detect the cell and tissue-specific expression and subcellular compartmentalization of GFP or BFP mutants, or of chimeric proteins comprising GFP or BFP mutants fused to a regulatory sequence or to a second protein sequence.

9 Claims, 0 Drawing figures  
Exemplary Claim Number: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 23. Document ID: US 6261787 B1

L9: Entry 23 of 36

File: USPT

Jul 17, 2001

US-PAT-NO: 6261787  
DOCUMENT-IDENTIFIER: US 6261787 B1  
\*\* See image for Certificate of Correction \*\*

TITLE: Bifunctional molecules for delivery of therapeutics

DATE-ISSUED: July 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Pamela B.	Cleveland heights	OH		
Ferkol, Jr.; Thomas W.	Concord	OH		
Eckman; Elizabeth	Ponte Vedra Beach	FL		

US-CL-CURRENT: 435/7.1; 435/69.7, 435/7.21, 514/12, 530/391.1, 530/391.7, 530/402, 530/807, 530/866, 536/23.1

## ABSTRACT:

A bifunctional molecule consisting of a therapeutic molecule and a ligand which specifically binds a transcytotic receptor can be transported specifically from the basolateral surface of epithelial cells to the apical surface. This approach provides the ability to deliver a therapeutic molecule directly to the apical surface of the epithelium, by targeting the transcytotic receptor with an appropriate ligand. Thus, the highest concentration of the therapeutic molecule will be at the apical surface, where it can have the greatest therapeutic effect.

16 Claims, 19 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 24. Document ID: US 6232107 B1

L9: Entry 24 of 36

File: USPT

May 15, 2001

US-PAT-NO: 6232107

DOCUMENT-IDENTIFIER: US 6232107 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

DATE-ISSUED: May 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA	90210	
Szent-Gyorgyi; Christopher	Pittsburgh	PA		

US-CL-CURRENT: 435/189; 435/183, 435/252.2, 435/320.1, 435/6, 435/69.1, 435/8

## ABSTRACT:

Isolated and purified nucleic acid molecules that encode a luciferase from Renilla mulleri, Gaussia and Pleuromamma, and the proteins encoded thereby are provided. Isolated and purified nucleic acids encoding green fluorescent proteins from the genus Renilla and Ptilosarcus, and the green fluorescent proteins encoded thereby are also provided. Compositions and combinations comprising the green fluorescent proteins and/or the luciferase are further provided.

63 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 25. Document ID: US 6150176 A

L9: Entry 25 of 36

File: USPT

Nov 21, 2000

US-PAT-NO: 6150176

DOCUMENT-IDENTIFIER: US 6150176 A

TITLE: Fluorescent protein sensors for measuring the pH of a biological sample

DATE-ISSUED: November 21, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Llopis; Juan	La Jolla	CA		
Wachter; Rebekka M.	Creswell	OR		
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 436/86; 530/350

## ABSTRACT:

Disclosed are fluorescent protein sensors for measuring the pH of a sample, nucleic acids encoding them, and methods of use. The preferred fluorescent protein sensors are variants of the green fluorescent protein (GFP) from Aequorea victoria. Also disclosed are compositions and

methods for measuring the pH of a specific region of a cell, such as the mitochondrial matrix or the Golgi lumen.

38 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 26. Document ID: US 6124128 A

L9: Entry 26 of 36

File: USPT

Sep 26, 2000

US-PAT-NO: 6124128

DOCUMENT-IDENTIFIER: US 6124128 A

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Cubitt; Andrew B.	San Diego	CA		
Heim; Roger	Del Mar	CA		
Ormo; Mats F.	Huddinge			SE
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 435/252.33; 435/252.3, 435/320.1, 536/23.1, 536/23.5

ABSTRACT:

Engineered fluorescent proteins, nucleic acids encoding them and methods of use.

37 Claims, 55 Drawing figures

Exemplary Claim Number: 9

Number of Drawing Sheets: 53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 27. Document ID: US 6090919 A

L9: Entry 27 of 36

File: USPT

Jul 18, 2000

US-PAT-NO: 6090919

DOCUMENT-IDENTIFIER: US 6090919 A

TITLE: FACS-optimized mutants of the green fluorescent protein (GFP)

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cormack; Brendan P.	Santa Cruz	CA		
Valdivia; Raphael H.	Palo Alto	CA		
Falkow; Stanley	Portola Valley	CA		

US-CL-CURRENT: 530/350

## ABSTRACT:

Three classes of GFP mutants having single excitation maxima around 488 nm are brighter than wild-type GFP following 488 nm excitation. GFPmut1 has a double substitution: F64L, S65T; GFPmut2 has a triple substitution: S65A, V68L, S72A; and GFPmut3 is characterized by the double substitution S65G, S72A. The excitation maxima of the three mutants are at 488 nm, 481 nm and 501 nm respectively. The fluorescence intensities following excitation at 488 nm are an order of magnitude higher than that of wild-type GFP excited at 488 nm in E. coli. The expression of GFP is observable minutes after induction.

15 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 28. Document ID: US 6077707 A

L9: Entry 28 of 36

File: USPT

Jun 20, 2000

US-PAT-NO: 6077707

DOCUMENT-IDENTIFIER: US 6077707 A

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: June 20, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Remington; S. James	Eugene	OR		
Cubitt; Andrew B.	San Diego	CA		
Heim; Roger	Del Mar	CA		
Ormo; Mats F.	Huddinge			SE

US-CL-CURRENT: 435/325; 435/252.3, 435/252.33, 435/254.11, 435/320.1, 435/410, 435/69.1,  
530/350, 536/23.1, 536/23.5

## ABSTRACT:

This invention provides functional engineered fluorescent proteins with varied fluorescence characteristics that can be easily distinguished from currently existing green and blue fluorescent proteins. In one aspect, the invention provides nucleic acids, expression vectors and recombinant host cells comprising nucleotide sequences encoding functional engineered fluorescent proteins comprising aromatic substitutions at position 66 and a folding mutation. In one embodiment the invention provides for fluorescent proteins containing an aromatic substitution at Thr 203.

17 Claims, 53 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 29. Document ID: US 6072041 A

L9: Entry 29 of 36

File: USPT

Jun 6, 2000

US-PAT-NO: 6072041

DOCUMENT-IDENTIFIER: US 6072041 A

TITLE: Fusion proteins for protein delivery

DATE-ISSUED: June 6, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Pamela B.	Cleveland Heights	OH		
Ferkol; Thomas	Concord	OH		
Eckman; Elizabeth	Ponte Vedra Beach	FL		
Schreiber; John	Gates Mills	OH		
Luk; John M.	South Horizons			HK

US-CL-CURRENT: 530/391.1; 530/391.7, 530/402, 530/867, 536/23.1

## ABSTRACT:

A protein conjugate consisting of antibody directed at the pIgR and A.sub.1 AT can be transported specifically from the basolateral surface of epithelial cells to the apical surface. This approach provides us with the ability to deliver a therapeutic protein directly to the apical surface of the epithelium, by targeting the pIgR with an appropriate ligand. Thus, the highest concentration of the antiprotease will be at the apical surface, where it can do the greatest good in accelerating the inflammatory response.

11 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 30. Document ID: US 6054321 A

L9: Entry 30 of 36

File: USPT

Apr 25, 2000

US-PAT-NO: 6054321

DOCUMENT-IDENTIFIER: US 6054321 A

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: April 25, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Remington; S. James	Eugene	OR		
Cubitt; Andrew B.	San Diego	CA		
Heim; Roger	Del Mar	CA		
Ormo; Mats F.	Huddinge			SE

US-CL-CURRENT: 436/86; 530/350, 702/19, 702/22

## ABSTRACT:

This invention provides functional engineered fluorescent proteins with varied fluorescence characteristics that can be easily distinguished from currently existing green and blue fluorescent proteins. In one embodiment the invention provides for the three dimensional structure and atomic coordinates of an Aequorea green fluorescent protein and methods for their use. In one embodiment, this invention provides a computational method of modeling the three dimensional structure of any other fluorescent protein based on the three dimensional structure of an Aequorea green fluorescent protein.

15 Claims, 36 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 53



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 31. Document ID: US 6046925 A

L9: Entry 31 of 36

File: USPT

Apr 4, 2000

US-PAT-NO: 6046925

DOCUMENT-IDENTIFIER: US 6046925 A

TITLE: Photochromic fluorescent proteins and optical memory storage devices based on fluorescent proteins

DATE-ISSUED: April 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Heim; Roger	Cardiff by the Sea	CA		
Cubitt; Andrew B.	San Diego	CA		
Dickson; Robert M.	San Diego	CA		
Moerner; William E.	La Jolla	CA		

US-CL-CURRENT: 365/111; 365/110, 536/23.4

## ABSTRACT:

Photochromic fluorescent protein moiety having two or more stable states having excitation or emission spectra that are shifted from one wavelength region to another wavelength region in the two states are described. The photochromic material switches between states by irradiation with light of appropriate wavelengths. The two states are preferably stable at room temperature and in the dark. The switching between states can be reversible.

87 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 32. Document ID: US 6027881 A

L9: Entry 32 of 36

File: USPT

Feb 22, 2000

US-PAT-NO: 6027881

DOCUMENT-IDENTIFIER: US 6027881 A

TITLE: Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

DATE-ISSUED: February 22, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pavlakakis; George N.	Rockville	MD		
Gaitanaris; George A.	Gaithersburg	MD		
Stauber; Roland H.	Frederick	MD		
Vournakis; John N.	Hanover	NH		

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 435/69.1, 435/69.7, 530/350, 536/23.4, 536/23.5

## ABSTRACT:

The present invention is directed to mutants of the jellyfish *Aequorea victoria* green fluorescent protein (GFP) having at least 5 and preferably greater than 20 times the specific green fluorescence of the wild type protein. In other embodiments, the invention comprises mutant blue fluorescent proteins (BFPs) that emit an enhanced blue fluorescence. The invention also encompasses the expression of nucleic acids that encode a mutant GFP or BFP in a wide variety of engineered host cells, and the isolation of engineered proteins having increased fluorescent activity. The novel mutants of the present invention allow for a significantly more sensitive detection of fluorescence in engineered host cells than is possible with GFP or with its known mutants. Thus, the mutant fluorescent proteins provided herein can be used as sensitive reporter molecules to detect the cell and tissue-specific expression and subcellular compartmentalization of GFP or BFP mutants, or of chimeric proteins comprising GFP or BFP mutants fused to a regulatory sequence or to a second protein sequence.

21 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 33. Document ID: US 6017734 A

L9: Entry 33 of 36

File: USPT

Jan 25, 2000

US-PAT-NO: 6017734

DOCUMENT-IDENTIFIER: US 6017734 A

TITLE: Unique nucleotide and amino acid sequence and uses thereof

DATE-ISSUED: January 25, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Summers; Max D.	Bryan	TX		
Braunagel; Sharon C.	Bryan	TX		
Hong; Tao	Bryan	TX		

US-CL-CURRENT: 435/69.7; 435/320.1, 435/348, 435/365, 435/91.4, 536/23.1, 536/23.72, 536/24.1

## ABSTRACT:

Provided are hydrophobic targeting sequences, which may serve to target heterologous proteins to a variety of cellular membranes. In particular, the structural components of the nuclear envelope, or those components which become nucleus-associated, may be targeted with the sequences provided. Also provided are methods of targeting heterologous proteins to particular membranes, and the use of these targeted proteins in therapeutic, diagnostic and insecticidal applications.

56 Claims, 47 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 34. Document ID: US 5989835 A

L9: Entry 34 of 36

File: USPT

Nov 23, 1999

US-PAT-NO: 5989835

DOCUMENT-IDENTIFIER: US 5989835 A

TITLE: System for cell-based screening

DATE-ISSUED: November 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunlay; R. Terry	Pittsburgh	PA		
Taylor; D. Lansing	Pittsburgh	PA		

US-CL-CURRENT: 435/7.2; 435/288.3, 435/288.4, 435/29, 435/40.5, 435/40.51, 435/7.21, 436/172, 436/546, 436/800, 436/809

## ABSTRACT:

The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

8 Claims, 10 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc	Image
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☐ 35. Document ID: US 5968738 A

L9: Entry 35 of 36

File: USPT

Oct 19, 1999

US-PAT-NO: 5968738  
DOCUMENT-IDENTIFIER: US 5968738 A

TITLE: Two-reporter FACS analysis of mammalian cells using green fluorescent proteins

DATE-ISSUED: October 19, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Michael T.	Menlo Park	CA		
Herzenberg; Leonard A.	Stanford	CA		

US-CL-CURRENT: 435/6; 435/243, 435/29, 435/325, 435/410

## ABSTRACT:

Two spectrally distinguishable GFPs are used as reporters in mammalian cells to simultaneously and independently analyze the expressions of two transcriptional elements. The two GFPs, encoded by single stably integrated transcriptional elements, are readily and quantitatively detectable by FACS or flow cytometry. One of the GFP mutants (S202F, T203I, V163A) retains only the major excitation peak of wild-type GFP, while the other (S65T, V163A) retains only the minor excitation peak of wild-type GFP. Both variants have emission peaks overlapping that of wtGFP. The first mutant is excited at 406 nm using a Kr ion laser, while the second mutant is excited at 488 nm using an Ar ion laser. Emissions from both GFPs are measured at about 515 nm. The mutant excited at 406 nm can be used in conjunction with a fluorescein-based assay such as FACS-Gal. Applications include drug screening, measurements of temporal orders of gene expression, analysis of signal transduction pathways, and measurements of protein-protein interactions using two-hybrid systems.

20 Claims, 18 Drawing figures  
Exemplary Claim Number: 16

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 36. Document ID: US 5804387 A

L9: Entry 36 of 36

File: USPT

Sep 8, 1998

US-PAT-NO: 5804387

DOCUMENT-IDENTIFIER: US 5804387 A

TITLE: FACS-optimized mutants of the green fluorescent protein (GFP)

DATE-ISSUED: September 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cormack; Brendan P.	Santa Cruz	CA		
Valdivia; Raphael H.	Palo Alto	CA		
Falkow; Stanley	Porola Valley	CA		

US-CL-CURRENT: 435/6; 435/243, 435/252.3, 435/254.11, 435/325, 435/410, 435/7.21, 536/23.1

## ABSTRACT:

Three classes of GFP mutants having single excitation maxima around 488 nm are brighter than lid-type GFP following 488 nm excitation. GFPmut1 has a double substitution: F64L, S65T; GFPmut2 has a triple substitution: S65A, V68L, S72A; and GFPmut3 is characterized by the double substitution S65G, S72A. The excitation maxima of the three mutants are at 488 nm, 481 nm and 501 nm respectively. The fluorescence intensities following excitation at 488 nm are an order of magnitude higher than that of wild-type GFP excited at 488 nm in E. coli. The expression of GFP is observable minutes after induction.

50 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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